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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/691,262	10/22/2003	Eric M. Peterson	200310181-1	5440		
22879 HEWLETT PA	7590 04/02/200 ACKARD COMPANY	8	EXAM	UNER		
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			KEEFER, M	KEEFER, MICHAEL E		
			ART UNIT	PAPER NUMBER		
			2154			
			NOTIFICATION DATE	DELIVERY MODE		
			04/02/2008	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary

Application No.	Applicant(s)	Applicant(s)			
10/691,262	PETERSON ET AL.	PETERSON ET AL.			
Examiner	Art Unit				
MICHAEL E. KEEFER	2154				

۔۔ Period for I	The MAILING DATE of this communication appears on the Reply	cover sheet with the correspondence address				
WHICH - Extension	RTENED STATUTORY PERIOD FOR REPLY IS SET TO EVER IS LONGER, FROM THE MAILING DATE OF TH ons of time may be available under the provisions of 37 CFR 1.136(a). In no eve (6) MONTHS from the mailing date of this communication.	IS COMMUNICATION.				
 If NO pe Failure to Any repl 	priod for reply is specified above, the maximum statutory period will apply and wi o reply within the set or extended period for reply will, by statute, cause the apply by received by the Office later than three months after the mailing date of this con patent term adjustment. See 37 CFR 1.704(b).	cation to become ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ R	esponsive to communication(s) filed on 26 December 20	<u>007</u> .				
2a)⊠ TI	This action is FINAL. 2b) This action is non-final.					
3)□ Si	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
cl	osed in accordance with the practice under Ex parte Qu	ayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition	n of Claims					
4)⊠ C	laim(s) 1-20 is/are pending in the application.					
4a	a) Of the above claim(s) is/are withdrawn from cor	sideration.				
5)□ C	laim(s) is/are allowed.					
6)⊠ C	laim(s) <u>1-20</u> is/are rejected.					
	laim(s) is/are objected to.					
8)∐ C	laim(s) are subject to restriction and/or election re	quirement.				
Application	n Papers					
9)⊠ Th	ne specification is objected to by the Examiner.					
10)□ Th	ne drawing(s) filed on is/are: a) accepted or b)	objected to by the Examiner.				
A	pplicant may not request that any objection to the drawing(s) b	e held in abeyance. See 37 CFR 1.85(a).				
Re	eplacement drawing sheet(s) including the correction is require	d if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)□ Th	ne oath or declaration is objected to by the Examiner. No	te the attached Office Action or form PTO-152.				
Priority und	der 35 U.S.C. § 119					
12) 🗌 Ac	cknowledgment is made of a claim for foreign priority und	ler 35 U.S.C. § 119(a)-(d) or (f).				
	All b) Some * c) None of:					
	Certified copies of the priority documents have bee					
	. Certified copies of the priority documents have been					
3.	Copies of the certified copies of the priority docume					
	application from the International Bureau (PCT Rule					
* Sec	e the attached detailed Office action for a list of the certil	ied copies not received.				
Attachment(s	•	»П				
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Informat	tion-Disclosure-Statement(s) (PTO/SE/08)	5) Notice of Informal Patent Application				
Paper N	lo(s)/Mail Date .	6) Other:				

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Page 2

Application/Control Number: 10/691,262

Art Unit: 2143

DETAILED ACTION

 This Office Action is responsive to the Amendment filed 12/26/2007. Claims 1-20 are pending, claims 1, 6, and 12 are independent, claims 16-20 are new.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1-2, 6, 12, and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Vaidya (US 6279113).

Regarding claims 1, Vaidya discloses:

A network usage analyzer, comprising:

a network query client residing in a first network; and (central data respository 12, in network 11)

a network query server residing in a second network protected by a firewall, the network query server operable to collect usage data associated with the second network and respond to at least one query regarding usage of the second network from the network query client. (Data collector 10 in network 24, as stated in the first paragraph of the detailed description, data collectors can be firewalls, in addition to their data collector functionality. Data repository 12 polls the data collectors to obtain network security data. (Col. 5 lines 27-29)

Art Unit: 2143

Regarding claim 2 as applied to claim 1, Vaidya discloses:

wherein the network query client and network query server are operable to communicate using a common protocol. (Since there are no protocol translators, in Fig. 1, the data collectors and data repository must inherently be using a common protocol to communicate.)

Regarding claim 4 as applied to claim 1, Vaidya discloses:

wherein the network query server is operable to receive a query from the network query client related to how resources in the second network are used. (the network security data that is polled for indicates whether resources are being used to attack a system. (Col. 5))

Regarding claim 5 as applied to claim 1, Vaidya discloses:

wherein the network query server is operable to collect data related to how resources in the second network are used. (the network security data that is returned indicates whether resources are being used to attack a system. The data collectors collect information regarding packet traffic. (Col. 5))

Regarding claim 11 as applied to claim 6, Vaidya discloses:

receiving, by the network query server, network configuration information. (Col. 5 lines 66-67 discloses network configuration data being sent (thus inherently received) to the data collectors.

Regarding claims 16 as applied to claims 1, 6, and 12, Vaidya discloses:

Art Unit: 2143

Transforming collected information into business information. (Col. 5 lines 50-51 discloses generating reports regarding intrusion detection history, which is business information.)

Regarding claims 17 as applied to claims 1 and 12. Vaidva discloses:

Network usage information based off of a time of day. (Vaidya polls the data collectors for new information, thus the network information retrieved is based upon the time of day at which the polling takes place.)

Claims 6, 12, and 18-20 are rejected for similar reasons as the claims above.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 3, 7-8, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaidya as applied to claims 1, 6, and 12 above, and further in view of Skonnard ("SOAP: The Simple Object Access Protocol").

Vaidya discloses all the limitations of claims 3, except for the firewall explicitly not being reconfigured and that the protocol used to poll the data collectors is SOAP.

The general concept of using SOAP to provide application functionality between networks with firewalls and avoiding reconfiguring them is well known in the art as taught by Skonnard. ("most firewalls block non-HTTP requests. SOAP gets around these limitations to provide intraprocess communication across machines." Page 1, Paragraph 1)

Art Unit: 2143

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Vaidya with the general concept of using SOAP to provide application functionality between networks with firewalls and avoiding reconfiguring them as taught by Skonnard in order to open as few ports in the firewalls as possible to increase security.

Claims 7-8 and 13 are rejected for reasoning similar to the claim above.

 Claims 9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaidya as applied to claims 1 and 12 above, and further in view of Korematsu (US 5978478).

Vaidya discloses all the limitations of claim 9 except for the repository authenticating with the data collectors.

The general concept of authenticating between a client and server using a request and acknowledgement is well known in the art as taught by Korematsu. (Col. 1 lines 46-59 teach sending a authenticate request and an authenticate acknowledgement.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Vaidya with the general concept of authenticating between a client and server using a request and acknowledgement as taught by Korematsu in order to make sure that possible network attack information is not passed to non-trusted entities.

Claim 14 is rejected based upon similar reasoning as the claim above.

Application/Control Number: 10/691,262 Art Unit: 2143

 Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vaidya and Korematsu as applied to claims 6 and 9 above, and further in view of Jackson et al. (US 2002/0049909).

Vaidya and Korematsu teach all the limitations of claim 10 except for authenticating periodically.

The general concept of periodically renewing authentication is well known in the art as taught by Jackson. ([0085] teaches verficiation of authentication at periodic or continual times.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Vaidya and Korematsu with the general concept of periodically renewing authentication as taught by Jackson in order to further increase the security of the authenticated connection.

 Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vaidya as applied to claim 12 above, and further in view of Smith (US 7137139).

Vaidya discloses all the limitations of claim 15 except for network configuration information being sent from the data collectors to the depository.

The general concept of sending network configuration data from elements in a network to a depository is well known in the art as taught by Smith. (Abstract, Configuration data for the network element is received and checked against previously stored configuration data.)

Application/Control Number: 10/691,262 Page 7

Art Unit: 2143

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Vaidya and the general concept of sending network configuration data from elements in a network to a depository as taught by Smith in order to make sure that the configuration of the data collectors has not been altered by an attack.

Response to Arguments

Applicant's arguments filed 12/26/2007 have been fully considered but they are not persuasive.

8. Applicant first argues that Vaidya does not disclose a query server residing in a second network protected by a firewall. The Examiner reiterates that the data collector 10 in remote network 24 (Fig. 1) can be a firewall. The fact that the specification states that the data collector may be implemented as part of a firewall or server does not stop the firewall/data collector from meeting the claim limitation of being a "network query server", as all of the data collectors are network query servers. (They serve information to the data repository 12, therefore they are servers.)

Second, Applicant argues that Jackson does not disclose the general concept of periodically renewing authentication as being well-known in the art. Specifically, Applicant argues that because Jackson is not directed towards network usage queries thus cannot disclose the general concept that periodically renewing authentication is well known in the art. The Examiner disagrees. In the rejection of record (which is repeated above in this document), the Examiner points out that the combination of

Application/Control Number: 10/691,262 Art Unit: 2143

Vaidya and Korematsu teaches authentication as well as network usage query servers and clients. Jackson is only used to show that renewing authentications is well known in the art, therefore does not need to disclose network query clients or servers, as those are disclosed in the system of Vaidya. Furthermore, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

9. Third, Applicant argues that the title of the invention is descriptive of the claimed subject matter. The Examiner disagrees that the title is descriptive of the claimed subject matter of the invention. The title is intended to be a way for someone searching applications to be able to quickly grasp the subject matter of a Patent without reading the abstract. In this case, the title does give any hint how this invention is different from any other "network usage analyzer", such as any SNMP client. The Examiner maintains the objection to the title.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Art Unit: 2143

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL E. KEEFER whose telephone number is (571)270-1591. The examiner can normally be reached on Monday through Friday 9am-5om.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2143

MEK 3/27/2008

/Joseph E. Avellino/ Primary Examiner, Art Unit 2143